***Example of My Teaching***

I designed a short twenty-five minutes lesson for ELL students as part of Methods for Teaching Secondary/Middle Mathematics course at University of Maine at Farmington (UMF). The topic of the lesson was linear equations and system of two linear equations.

I did preassessment on the students’ knowledge of linear equations by asking them to tell me what they knew or remembered about the term “Linear Equations.” I encouraged the students to brainstorm possible real-life applications of either linear equations or their graphs. I then told them that we were going to focus on the real-life application of slopes. I gave students prompts and pictures of a runner and a child sledding. Then I asked them what kinds of slopes or hills would each of them prefer to either run on or sled on. The students each got a chance to have a conversation with a partner. Then I demonstrated how to use GeoGebra to graph a line and manipulate the line. Students got chance to make their own running and sledding hills on Geogebra, and they observed the changes on the linear functions when they manipulated the lines and slopes. Some students finished this activity faster than others. I then introduced a system of two linear equations to them. I showed them how they could apply their knowledge of solving one linear equation to solve a system of two linear equations. I illustrated the idea using graphs on a whiteboard. At the end of lesson, every student filled out an exit ticket, in which they jotted down one thing they liked and did not like about the lesson. From the exit tickets, I could tell that the students liked the idea of learning math in relation to real life, and they enjoyed learning with Geogebra. I have attached one example of the exit tickets that I received from Louise, who commented on that she liked my teaching and had nothing she did not like during the lesson.